

2017 SIM Time and Frequency Working Group workshop and meeting

Draft Agenda

DAY 1 (Monday, 2017-10-23): WORKSHOP

Time	Duration	Theme
8:00 – 8:30	30 minutes	Register of participants
8:30 – 9:00	30 minutes	Welcome to INM
9:00 – 9:10	10 minutes	Introduction of the agenda
9:10 – 10:00	50 minutes	Introduction to Time and Frequency metrology concepts
10:00 – 10:30	30 minutes	Break
10:30 – 11:00	30 minutes	Introduction to Time and Frequency references
11:00 – 12:00	60 minutes	The Global Positioning System and Satellite Time Transfer
12:00 – 13:00	60 minutes	Lunch
13:00 – 14:00	60 minutes	Statistical Analysis of the measurements: ADEV and TDEV, linear analysis.
14:00 – 15:00	60 minutes	Ensemble of Time Scales
15:00 – 15:30	30 minutes	Break
15:30 – 16:30	60 minutes	SIM Time Network and SIM Time Scale

DAY 2 (Tuesday, 2017-10-24): WORKSHOP

Time	Duration	Theme
8:30 – 9:15	45 minutes	Signal generation and measurements in time and frequency.
9:15 – 10:00	45 minutes	Traceability and uncertainty P1: UTC Key comparison and bilateral comparison using the SIM Time Network.
10:00 – 10:30	30 minutes	Break
10:30 – 11:15	45 minutes	Traceability and uncertainty P2: Time and Frequency uncertainty propagation and GUM method.
11:15 – 12:00	45 minutes	Case study 1: Metrology in time laboratory
12:00 – 13:00	60 minutes	Lunch
13:00 – 14:00	60 minutes	Time and Frequency calibrations P1: Stopwatches
14:00 – 15:00	60 minutes	Time and Frequency calibrations P2: Tachometers
15:00 – 15:30	30 minutes	Break
15:30 – 16:30	60 minutes	Time and Frequency calibrations P3: General frequency meters

DAY 3 (Wednesday, 2017-10-25): WORKSHOP

Time	Duration	Theme
8:30 – 9:00	30 minutes	Time and Frequency calibration and dissemination laboratory requirements.
9:00 – 9:30	30 minutes	Case study 2: Metrology in time laboratory
9:30 – 10:00	30 minutes	Break
10:00 – 12:00	120 minutes	Tour in the INM laboratories
12:00 – 13:00	60 minutes	Lunch
13:00 – 13:40	40 minutes	Time and Frequency Traceability in emerging technologies P1
13:40 – 14:20	40 minutes	Time and Frequency Traceability in emerging technologies P2
14:20 – 15:00	40 minutes	Preparing Calibration Service Procedures and Calibration Methods in Support of CMCs
15:00 – 15:30	30 minutes	Break
15:30 – 17:00	90 minutes	Receiver Calibrations for UTC Contributors (includes equipment demonstration)

DAY 4 (Thursday, 2017-10-26): WG MEETING

Time	Duration	Theme
8:00 – 8:30	30 minutes	Words of welcome to the meeting and planning session and Chair WG report
8:30 – 9:00	30 minutes	50th anniversary of the adoption of the atomic definition of the second and the future of the time unit
9:00 – 9:30	30 minutes	CCTF in MRA Guidelines
9:30 – 10:00	30 minutes	Break
10:00 – 10:30	30 minutes	Presentation of SIM Guidelines for Time and Frequency
10:30 – 12:00	90 minutes	Group planning (Round table, period 2018 – 2019)
12:00 – 13:00	60 minutes	Lunch
13:00 – 15:30		Report of laboratory activities P1 (period 2015 – 2017)
15:30 – 15:45	30 minutes	Break
15:45 – 16:50		Report of laboratory activities P2 (period 2015 – 2017)
16:50 – 17:00	10 minutes	Closing remarks and discussion